

FIG. 1

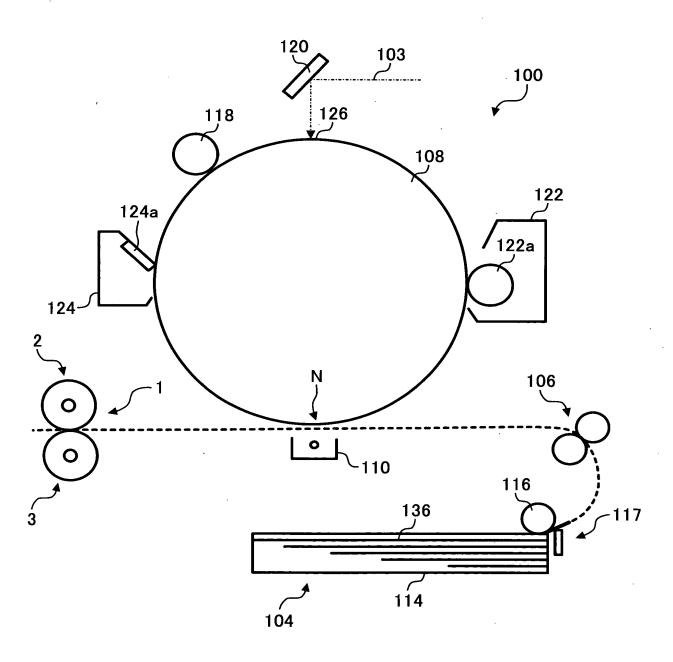
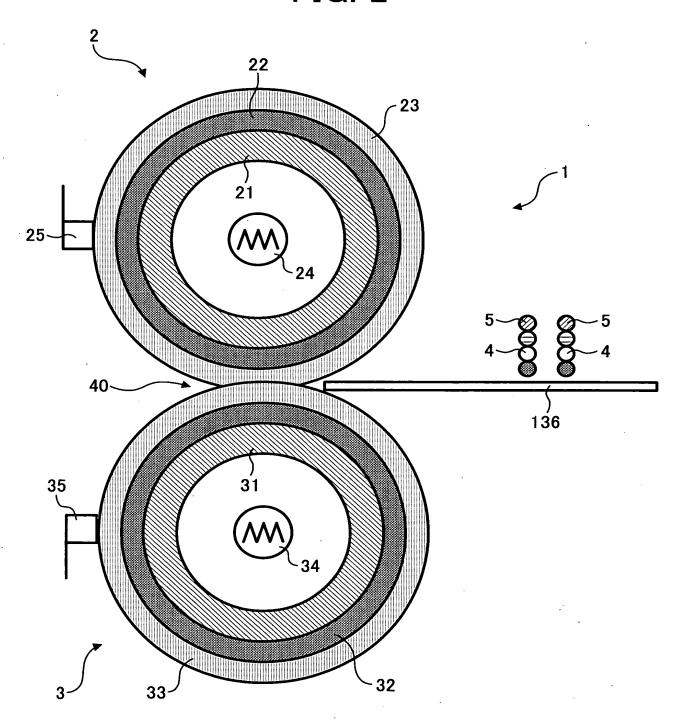
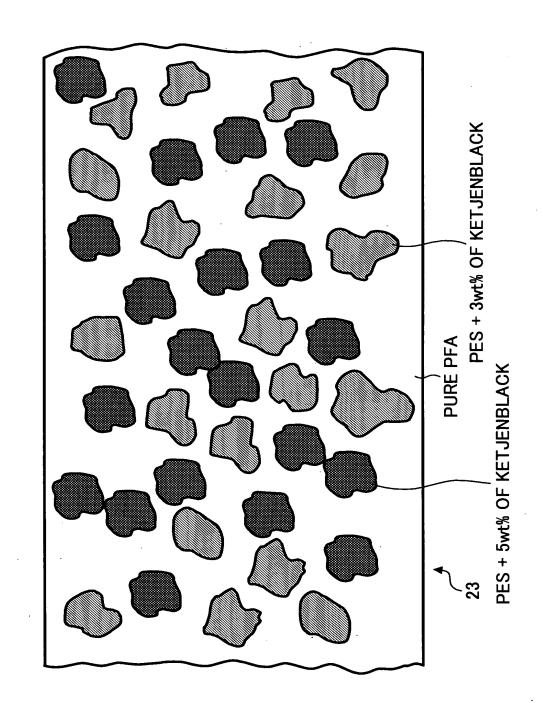


FIG. 2





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Replacement Sheet

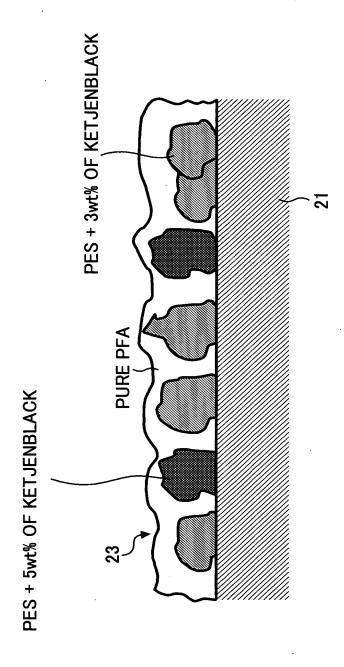
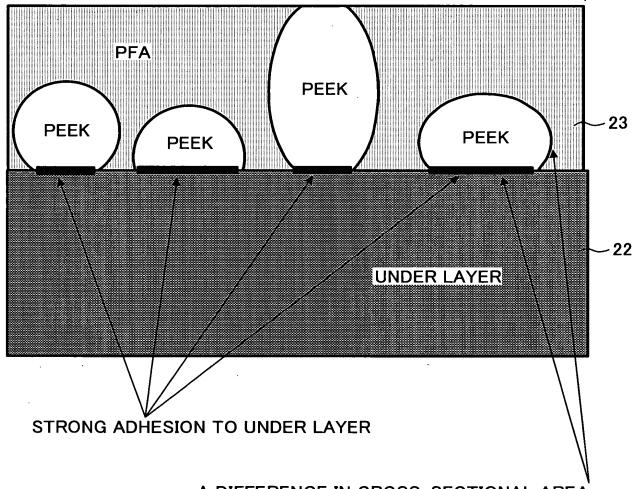


FIG. 5



A DIFFERENCE IN CROSS-SECTIONAL AREA IN THIS PORTION PROVIDES THE ENTIRE LAYER WITH STRONG ADHESION ALTHOUGH ADHESION TO THE UNDER LAYER IS WEAK.

| PFA: PEEK<br>(WEIGHT RATIO) | PEEL STRENGTH<br>(STANDARDIZED FOR 100% PFA = 1) | PEEL STRENGTH (STANDARDIZED FOR 100% PFA = 1) (STANDARDIZED FOR 100% PFA = 1) |
|-----------------------------|--|---|
| 100:0                       | 1.0  | 1.00  |
| 95 : 5                      | 1.2  | 0.62  |
| 90 : 10                     | 4.3  | 0.52  |
| 85 : 15                     | 5.1  | 0.53  |
| 80:20                       | 5.2  | 0.55  |
| 75 : 25                     | 5.5  | 0.70  |
| 70:30                       | 6.0  | 08'0  |
| 0: 100                      | 6.2  | TONER DEPOSITED ON ROLLER SURFACE   |

## FIG. 7

| PFA : PES<br>(VOLUME RATIO) | TONER DEPOSITION | SURFACE ROUGHNESS Rz ( $\mu$ m) |
|-----------------------------|------------------|---------------------------------|
| 30 : 70                     | SOME             | 5.3                             |
| 40 : 60                     | SOME             | 4.5                             |
| 50 : 50                     | NONE             | 2.2                             |
| 60 : 40                     | NONE             | 1.8                             |
| 70 : 30                     | NONE             | 2.1                             |

FIG. 8

| PRESSURE<br>(kgf / cm <sup>2</sup> )    | TONER<br>DEPOSITION | SHEET<br>WRAPPING |
|---|---------------------|-------------------|
| $0.3  (kgf / cm^2)$                     | NONE                | NONE              |
| $0.5  (\mathrm{kgf}  /  \mathrm{cm}^2)$ | NONE                | NONE              |
| 1.0 (kgf / cm <sup>2</sup> )            | NONE                | NONE              |
| 2.0 (kgf / cm <sup>2</sup> )            | SOME                | NONE              |
| 4.0 (kgf / cm <sup>2</sup> )            | MUCH                | FREQUENT<br>JAM   |

| PFA: PES<br>(VOLUME RATIO)            | COLD OFFSET<br>TEMPERATURE | HOT OFFSET<br>TEMPERATURE |
|---------------------------------------|----------------------------|---------------------------|
| 30 : 70                               | 105°C                      | 190°C                     |
| 40 : 60                               | 105°C                      | 190°C                     |
| 20 : 50                               | 105°C                      | 190°C                     |
| 60 : 40                               | 105°C                      | 190°C                     |
| 70 : 30                               | 110°C                      | 190°C                     |
| PFA WITH 3% OF CARBON<br>(COMPARISON) | 130°C                      | 200°C                     |